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APPLICATION NO	PLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/515,376 02		02/29/2000	Sandeep Bhutani	30454-00243(LSI C4-4247)	1883
24319	7590	06/25/2004		EXAMINER	
	IC CORPO		PHAN, THAI Q		
1621 BAR MS: D-106	BER LANE 5 LEGAL	Ė		ART UNIT	PAPER NUMBER
MILPITAS	S, CA 950	35		2128	
				DATE MAILED: 06/25/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ition No.	Applicant(s)	_
		09/515	,376	BHUTANI ET AL.	
C	Office Action Summary	Examin	er	Art Unit	
		Thai Q.	Phan	2128	
The Period for Re	e MAILING DATE of this commu	nication appears on t	the cover sheet with the d	correspondence address	
THE MAIL - Extensions after SIX (6) - If the period - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD ING DATE OF THIS COMMUN of time may be available under the provisior) MONTHS from the mailing date of this com d for reply specified above is less than thirty of tor reply is specified above, the maximum apply within the set or extended period for replaceived by the Office later than three months ent term adjustment. See 37 CFR 1.704(b).	NICATION. us of 37 CFR 1.136(a). In no umunication. umunication, umunication within the s statutory period will apply and umunication will, by statute, cause the a	event, however, may a reply be tir tatutory minimum of thirty (30) day I will expire SIX (6) MONTHS from application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication (D) (35 U.S.C. § 133).	1 .
Status					
1)⊠ Res	ponsive to communication(s) fi	led on 15 April 2004.			
• ==	action is FINAL .	2b) ☐ This action is			
3) Sinc	ce this application is in condition ed in accordance with the prac	n for allowance exce	pt for formal matters, pro		;
Disposition o	of Claims				
4a) C 5)	m(s) 1-22 is/are pending in the Df the above claim(s) is/am(s) is/am(s) is/am(s) is/are allowed. m(s) 1-22 is/are rejected. m(s) is/are objected to. m(s) are subject to restrict the strict of the subject to restrict the subject the subject to restrict the subject the	are withdrawn from o			
9)∏ The :	specification is objected to by the	ne Examiner.			
10)⊠ The o Appl Repl	drawing(s) filed on 29 February icant may not request that any objusted that any objusted that any objusted to the control of	$\frac{2000}{2000}$ is/are: a) \boxtimes a ection to the drawing(s g the correction is requ) be held in abeyance. Security if the drawing(s) is ob-	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under	r 35 U.S.C. § 119				
a)		documents have be documents have be of the priority documents have be on all Bureau (PCT R	een received. een received in Applicati nents have been receive ule 17.2(a)).	on No ed in this National Stage	
Attachment(s)	00.1.770.000			(DTO (440)	
	leferences Cited (PTO-892) traftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da		
3) 🔲 Information	Disclosure Statement(s) (PTO-1449 o)/Mail Date			ratent Application (PTO-152)	

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DETAILED ACTION

This Office Action is in response to applicants' amendment filed on Apr. 15, 2004. Claims 1-22 are pending now in the Action.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-22 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims of U.S. Patent No. 6,484,297, issued to Dixit and Venkateswaran. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are directed to derating scheme for circuit propagation delay and setup/hold time computation. They require limitations and features similar to each other in order to derive or create a delay equation to compute the propagation delays of the circuit cell based on operating conditions and circuit parameters. The difference between the present invention and the US patent 6,487,297 is the claimed "a delay equation" as cited in the independent

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claims in stead of coefficient factors [in the delay equation] to compute propagation delay as in the US patent no. 6,489,297.

Practitioner in the art at the time of the invention was made would have found delay factors (coefficients) determined for circuit parameters such as process variation, temperature, voltage, and under operating conditions such as ramptime and load or fanout, and the calculation of propagation delay as in the patent imply the claimed limitation of "a delay equation" because such determined delay factors are obviously used in the delay equation in order to calculate circuit propagation delay (see Specification of the US patent 6,484,297) as the claims for.

Response to Arguments

- 3. Applicant's arguments to the Double Patenting Rejection have been fully considered but they are not persuasive.
- 4. In response to applicants' argument claims in patent no. 6,484,297, issued to Dixit and Venkateswaran, fails to disclose or does not imply a delay equation generated and used to compute delays as claimed herein (page 10), the examiner disagrees with. The claims in US patent 6,484,297 require cell parameters and delay coefficients determined for propagation delays calculation as cited in the patent. For delay propagation calculation, it would obviously require a mathematical equation expressed in such determined coefficient factors (see Specification), and simple calculation on the delay equation with the properly determined coefficients to calculate cell delay propagation.

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5. Applicant's arguments, with respect to the 35 USC 103 Rejection, have been fully considered and are persuasive. The claim rejection of 35 USC 103 has been withdrawn.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai Q. Phan whose telephone number is 703-305-3812.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Teska can be reached on 703-305-9704. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

June 20, 2004

May han Thai Phan

Patent Examiner

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